

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101 (121) - Quiz IV

Name:

ID:

Serial No.:

1. Find the linearization of $f(x) = \sec(x)$ at $x = \frac{-\pi}{4}$.

2. Find the extreme values for

$$y = \begin{cases} -x^2 - 2x + 4, & x \leq 1 \\ -x^2 + 8x - 4, & x > 1 \end{cases}$$